

We claim:-

1. A thermally polymerizable mixture consisting of a multifunctional macromonomer comprising one or more free-radically polymerizable groups and a polymerization initiator.
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2. The thermally polymerizable mixture according to claim 1 wherein said free-radically polymerizable groups are acrylate, methacrylate, maleate, vinyl ether, vinyl and/or allyl groups.
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3. The thermally polymerizable mixture according to claim 1 or 2 wherefor the molar mass M_w of said multifunctional macromonomer is in the range from 300 to 30 000.
- 15 4. The thermally polymerizable mixture according to claims 1 to 3 wherefor the molar mass M_w of said multifunctional macromonomer is in the range from 500 to 20 000.
- 20 5. The thermally polymerizable mixture according to claims 1 to 4 wherefor said multifunctional macromonomer is obtainable by co-reacting
 - a) 0.5-2.0 equivalents of a 2- to 6-hydric alkoxyated alcohol with
 - b) 0 to 1 equivalent of a 2- to 4-basic C_3 to C_{16} carboxylic acid and/or anhydride and
 - 25 c) 0.1 to 1.5 equivalents of acrylic acid and/or methacrylic acid
 - d) 0 to 1 equivalent of dioland then reacting the thus obtainable reaction product with at least one epoxy compound.
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6. The thermally polymerizable mixture according to claim 5 wherefor said multifunctional macromonomer is obtainable by subsequently reacting the product of the reaction of an epoxy compound with said reaction product with a polyisocyanate in the presence or absence of a chain extender to form a
35 macromonomer comprising acrylate and polyurethane groups.
7. The thermally polymerizable mixture according to claims 1 to 6 wherein said polymerization initiator is at least one selected from the group consisting of peroxides, hydroperoxides, peroxydisulfates, percarbonates, peroxyesters, hydrogen peroxide and azo compounds.
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8. The thermally polymerizable mixture according to claims 1 to 7 comprising 0.05% to 15% by weight solids of a polymerization initiator.

9. A use of a thermally polymerizable mixture consisting of a multifunctional macromonomer comprising one or more free-radically polymerizable double bonds and a polymerization initiator as a binder for a substrate.
- 5 10. The use according to claim 9 wherein said thermally polymerizable mixture is used as a binder for glass fiber, rock wool, natural fiber, manufactured fiber and for core sand binding.